

Table J2. - Chemical Properties of the Soils

Augusta County, Virginia

Absence of an entry indicates that data were not estimated.

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
1B:								
Allegheny	0-12	4.8-14	3.6-11	3.6 - 5.5	---	---	---	---
	12-34	4.5-9.9	3.4-7.4	3.6 - 5.5	---	---	---	---
	34-60	2.5-9.9	1.9-7.4	3.6 - 5.5	---	---	---	---
2B:								
Allegheny	0-6	6.0-16	4.5-12	3.6 - 5.5	---	---	---	---
	6-34	2.5-9.9	1.9-7.4	3.6 - 5.5	---	---	---	---
	34-60	2.5-8.6	1.9-6.5	3.6 - 5.5	---	---	---	---
3B:								
Allegheny	0-6	4.8-14	3.6-11	3.6 - 5.5	---	---	---	---
	6-34	4.5-9.9	1.9-7.4	3.6 - 5.5	---	---	---	---
	34-60	2.5-9.9	1.9-7.4	3.6 - 5.5	---	---	---	---
Cotaco	0-15	3.6-18	2.7-14	3.6 - 5.5	---	---	---	---
	15-60	7.4-15	5.6-11	3.6 - 5.5	---	---	---	---
Purdy	---	---	---	---	---	---	---	---
Wet Spots	---	---	---	---	---	---	---	---
3C:								
Allegheny	0-6	4.8-14	3.6-11	3.6 - 5.5	---	---	---	---
	6-34	4.5-9.9	3.4-7.4	3.6 - 5.5	---	---	---	---
	34-60	2.5-9.9	1.9-7.4	3.6 - 5.5	---	---	---	---
Cotaco	0-15	3.6-18	2.7-14	3.6 - 5.5	---	---	---	---
	15-60	7.4-15	5.6-11	3.6 - 5.5	---	---	---	---
Wet Spots	---	---	---	---	---	---	---	---
4B:								
Allegheny	0-6	6.0-16	4.5-12	3.6 - 5.5	---	---	---	---
	6-34	2.5-9.9	1.9-6.5	3.6 - 5.5	---	---	---	---
	34-60	2.5-8.6	1.9-6.5	3.6 - 5.5	---	---	---	---
Cotaco	0-9	3.6-18	2.7-14	3.6 - 5.5	---	---	---	---
	9-60	6.3-13	4.7-10	3.6 - 5.5	---	---	---	---
Purdy	---	---	---	---	---	---	---	---
Wet Spots	---	---	---	---	---	---	---	---
4C:								

Table J2. - Chemical Properties of the Soils - Continued

Augusta County, Virginia

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
4C:								
Allegheny	0-6	6.0-16	4.5-12	3.6 - 5.5	---	---	---	---
	6-34	2.5-9.9	1.9-7.4	3.6 - 5.5	---	---	---	---
	34-60	2.5-8.6	1.9-6.5	3.6 - 5.5	---	---	---	---
Cotaco	0-9	3.6-18	2.7-14	3.6 - 5.5	---	---	---	---
	9-60	6.3-13	4.7-10	3.6 - 5.5	---	---	---	---
Wet Spots	---	---	---	---	---	---	---	---
5:								
Aqualfs	0-3	11-21	8.1-16	5.6 - 8.4	---	---	---	---
	3-43	12-19	9.2-14	5.6 - 8.4	---	---	---	---
	43-60	12-19	9.2-14	5.6 - 8.4	---	---	---	---
6:								
Aquents	0-10	6.2-17	4.7-13	5.6 - 7.3	---	---	---	---
	10-27	1.8-12	1.3-9.2	5.6 - 7.3	---	---	---	---
	27-30	1.8-8.1	1.3-6.1	5.6 - 7.3	---	---	---	---
	30-34	---	---	---	---	---	---	---
7:								
Atkins	0-9	9.8-18	7.3-13	4.5 - 5.5	---	---	---	---
	9-33	6.3-13	4.7-10	4.5 - 5.5	---	---	---	---
	33-67	3.5-13	2.6-10	4.5 - 5.5	---	---	---	---
8D:								
Berks	0-10	6.2-17	4.7-13	3.6 - 6.5	---	---	---	---
	10-27	1.8-12	1.3-9.2	3.6 - 6.5	---	---	---	---
	27-30	1.8-8.1	1.3-6.1	3.6 - 6.5	---	---	---	---
	30-34	---	---	---	---	---	---	---
Wet Spots	---	---	---	---	---	---	---	---
8E:								
Berks	0-10	6.2-17	4.7-13	3.6 - 6.5	---	---	---	---
	10-27	1.8-12	1.3-9.2	3.6 - 6.5	---	---	---	---
	27-30	1.8-8.1	1.3-6.1	3.6 - 6.5	---	---	---	---
	30-34	---	---	---	---	---	---	---
Wet Spots	---	---	---	---	---	---	---	---
8F:								
Berks	0-10	6.2-17	4.7-13	3.6 - 6.5	---	---	---	---
	10-27	1.8-12	1.3-9.2	3.6 - 6.5	---	---	---	---
	27-30	1.8-8.1	1.3-6.1	3.6 - 6.5	---	---	---	---
	30-34	---	---	---	---	---	---	---

Table J2. - Chemical Properties of the Soils - Continued

Augusta County, Virginia

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
9B2:								
Berks	0-10	6.2-17	4.7-13	3.6 - 6.5	---	---	---	---
	10-27	1.8-12	1.3-9.2	3.6 - 6.5	---	---	---	---
	27-30	1.8-8.1	1.3-6.1	3.6 - 6.5	---	---	---	---
	30-34	---	---	---	---	---	---	---
Weikert	0-5	7.5-16	5.6-12	4.5 - 6.0	---	---	---	---
	5-13	5.2-11	3.9-7.9	4.5 - 6.0	---	---	---	---
	13-17	---	---	---	---	---	---	---
Wet Spots	---	---	---	---	---	---	---	---
9C2:								
Berks	0-10	6.2-17	4.7-13	3.6 - 6.5	---	---	---	---
	10-27	1.8-12	1.3-9.2	3.6 - 6.5	---	---	---	---
	27-30	1.8-8.1	1.3-6.1	3.6 - 6.5	---	---	---	---
	30-34	---	---	---	---	---	---	---
Weikert	0-5	7.5-16	5.6-12	4.5 - 6.0	---	---	---	---
	5-13	5.2-11	3.9-7.9	4.5 - 6.0	---	---	---	---
	13-17	---	---	---	---	---	---	---
10B2:								
Bookwood	0-6	5.8-14	4.3-10	5.1 - 6.5	---	---	---	---
	6-30	7.0-13	5.2-10	5.1 - 6.5	---	---	---	---
	30-36	9.4-17	7.1-13	5.1 - 6.5	---	---	---	---
	36-41	---	---	---	---	---	---	---
	41-60	---	---	---	---	---	---	---
10C2:								
Bookwood	0-6	5.8-14	4.3-10	5.1 - 6.5	---	---	---	---
	6-30	7.0-13	5.2-10	5.1 - 6.5	---	---	---	---
	30-36	9.4-17	7.1-13	5.1 - 6.5	---	---	---	---
	36-41	---	---	---	---	---	---	---
	41-60	---	---	---	---	---	---	---
Wet Spots	---	---	---	---	---	---	---	---
10D2:								
Bookwood	0-6	5.8-14	4.3-10	5.1 - 6.5	---	---	---	---
	6-30	7.0-13	5.2-10	5.1 - 6.5	---	---	---	---
	30-36	9.4-17	7.1-13	5.1 - 6.5	---	---	---	---
	36-41	---	---	---	---	---	---	---
	41-60	---	---	---	---	---	---	---
10E2:								

Table J2. - Chemical Properties of the Soils - Continued

Augusta County, Virginia

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
10E2:								
Bookwood	0-6	5.8-14	4.3-10	5.1 - 6.5	---	---	---	---
	6-30	7.0-13	5.2-10	5.1 - 6.5	---	---	---	---
	30-36	9.4-17	7.1-13	5.1 - 6.5	---	---	---	---
	36-41	---	---	---	---	---	---	---
	41-45	---	---	---	---	---	---	---
11A:								
Buchanan	0-11	4.8-14	3.6-10	3.6 - 5.5	---	---	---	---
	11-44	4.5-8.6	3.4-6.5	3.6 - 5.5	---	---	---	---
	44-60	4.5-12	3.4-9.3	3.6 - 5.5	---	---	---	---
Purdy	---	---	---	---	---	---	---	---
11B:								
Buchanan	0-11	4.8-14	3.6-10	3.6 - 5.5	---	---	---	---
	11-44	4.5-8.6	3.4-6.5	3.6 - 5.5	---	---	---	---
	44-60	4.5-12	3.4-9.3	3.6 - 5.5	---	---	---	---
Purdy	---	---	---	---	---	---	---	---
12B:								
Buchanan	0-11	4.8-14	3.6-10	3.6 - 5.5	---	---	---	---
	11-44	4.5-8.6	3.4-6.5	3.6 - 5.5	---	---	---	---
	44-60	4.5-12	3.4-9.3	3.6 - 5.5	---	---	---	---
Purdy	---	---	---	---	---	---	---	---
13C:								
Buchanan	0-11	4.8-14	3.6-10	3.6 - 5.5	---	---	---	---
	11-44	4.5-8.6	3.4-6.5	3.6 - 5.5	---	---	---	---
	44-60	4.5-12	3.4-9.3	3.6 - 5.5	---	---	---	---
Monongahela	0-9	7.0-16	5.2-12	4.5 - 5.5	---	---	---	---
	9-28	4.5-9.9	3.4-7.4	4.5 - 5.5	---	---	---	---
	28-53	4.5-9.9	3.4-7.4	4.5 - 5.5	---	---	---	---
	53-62	2.5-9.9	1.9-7.4	4.5 - 5.5	---	---	---	---
Purdy	---	---	---	---	---	---	---	---
14:								
Buckton	0-7	8.0-18	6.0-14	6.6 - 8.4	0-10	---	---	---
	7-54	6.3-13	4.7-10	7.4 - 8.4	0-10	---	---	---
	54-90	1.8-5.7	1.3-4.3	7.4 - 8.4	0-10	---	---	---
Wet Spots	---	---	---	---	---	---	---	---
15B:								

Table J2. - Chemical Properties of the Soils - Continued

Augusta County, Virginia

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
15B:								
Burketown	0-15	3.5-11	2.6-7.9	4.5 - 6.5	---	---	---	---
	15-34	1.2-5.6	0.9-4.2	4.5 - 6.5	---	---	---	---
	34-48	1.2-4.9	0.9-3.7	4.5 - 6.5	---	---	---	---
	48-64	1.2-15	0.9-11	4.5 - 6.5	---	---	---	---
Flooded Soils	---	---	---	---	---	---	---	---
15C:								
Burketown	0-15	3.5-11	2.6-7.9	4.5 - 6.5	---	---	---	---
	15-34	1.2-5.6	0.9-4.2	4.5 - 6.5	---	---	---	---
	34-48	1.2-4.9	0.9-3.7	4.5 - 6.5	---	---	---	---
	48-64	1.2-15	0.9-11	4.5 - 6.5	---	---	---	---
16E:								
Cataska	0-7	5.2-12	3.9-9.2	3.6 - 5.5	---	0	---	---
	7-17	4.1-10	3.1-7.5	3.6 - 5.5	---	0	---	---
	17-24	---	---	---	---	---	---	---
	24-28	---	---	---	---	---	---	---
16F:								
Cataska	0-7	5.2-12	3.9-9.2	3.6 - 5.5	---	0	---	---
	7-17	4.1-10	3.1-7.5	3.6 - 5.5	---	0	---	---
	17-24	---	---	---	---	---	---	---
	24-28	---	---	---	---	---	---	---
17E:								
Cataska	0-7	5.2-12	3.9-9.2	3.6 - 5.5	---	---	---	---
	7-17	4.1-10	3.1-7.5	3.6 - 5.5	---	---	---	---
	17-24	---	---	---	---	---	---	---
	24-28	---	---	---	---	---	---	---
18:								
Chagrin	0-11	8.0-18	6.0-14	5.6 - 7.3	---	---	---	---
	11-48	6.3-15	4.7-11	5.6 - 7.3	---	---	---	---
	48-72	1.8-11	1.3-8.2	5.6 - 7.3	---	---	---	---
Fluvaquents	---	---	---	---	---	---	---	---
19:								
Chavies	0-14	3.6-15	2.7-12	4.5 - 7.3	---	---	---	---
	14-34	2.5-7.4	1.8-5.6	4.5 - 7.3	---	---	---	---
	34-62	2.5-7.4	1.8-5.6	4.5 - 6.0	---	---	---	---
20B2:								
Chilhowie	0-7	12-21	8.7-16	6.1 - 8.4	---	---	---	---
	7-17	21-29	16-22	6.1 - 8.4	---	---	---	---
	17-22	11-29	7.9-22	6.6 - 8.4	---	---	---	---
	22-26	---	---	---	---	---	---	---

Table J2. - Chemical Properties of the Soils - Continued

Augusta County, Virginia

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
20B2:								
Wet Spots	---	---	---	---	---	---	---	---
20C2:								
Chilhowie	0-7	12-21	8.7-16	6.1 - 8.4	---	---	---	---
	7-17	21-29	16-22	6.1 - 8.4	---	---	---	---
	17-22	11-29	7.9-22	6.6 - 8.4	---	---	---	---
	22-26	---	---	---	---	---	---	---
Wet Spots	---	---	---	---	---	---	---	---
21B3:								
Chilhowie	0-7	12-21	8.7-16	6.1 - 8.4	---	---	---	---
	7-17	21-29	16-22	6.1 - 8.4	---	---	---	---
	17-22	11-29	7.9-22	6.6 - 8.4	---	---	---	---
	22-26	---	---	---	---	---	---	---
Wet Spots	---	---	---	---	---	---	---	---
21C3:								
Chilhowie	0-7	12-21	8.7-16	6.1 - 8.4	---	---	---	---
	7-17	21-29	16-22	6.1 - 8.4	---	---	---	---
	17-22	11-29	7.9-22	6.6 - 8.4	---	---	---	---
	22-26	---	---	---	---	---	---	---
Wet Spots	---	---	---	---	---	---	---	---
21D3:								
Chilhowie	0-7	12-21	8.7-16	6.1 - 8.4	---	---	---	---
	7-17	21-29	16-22	6.1 - 8.4	---	---	---	---
	17-22	11-29	7.9-22	6.6 - 8.4	---	---	---	---
	22-26	---	---	---	---	---	---	---
Wet Spots	---	---	---	---	---	---	---	---
21E3:								
Chilhowie	0-7	12-21	8.7-16	6.1 - 8.4	---	---	---	---
	7-17	21-29	16-22	6.1 - 8.4	---	---	---	---
	17-22	11-29	7.9-22	6.6 - 8.4	---	---	---	---
	22-26	---	---	---	---	---	---	---
Wet Spots	---	---	---	---	---	---	---	---
22B2:								

Table J2. - Chemical Properties of the Soils - Continued

Augusta County, Virginia

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
22B2:								
Chilhowie	0-7	12-21	8.7-16	6.1 - 8.4	---	---	---	---
	7-17	21-29	16-22	6.1 - 8.4	---	---	---	---
	17-22	19-29	14-22	6.6 - 8.4	---	---	---	---
	22-26	---	---	---	---	---	---	---
Edom	0-8	9.8-21	7.3-16	5.1 - 7.8	---	---	---	---
	8-40	12-22	9.2-17	5.1 - 7.8	---	---	---	---
	40-70	9.4-22	7.1-17	5.6 - 7.8	---	---	---	---
	70-74	---	---	---	---	---	---	---
Wet Spots	---	---	---	---	---	---	---	---
22C2:								
Chilhowie	0-7	12-21	8.7-16	6.1 - 8.4	---	---	---	---
	7-17	21-29	16-22	6.1 - 8.4	---	---	---	---
	17-22	19-29	14-22	6.6 - 8.4	---	---	---	---
	22-26	---	---	---	---	---	---	---
Edom	0-8	9.8-21	7.3-16	5.1 - 7.8	---	---	---	---
	8-40	12-22	9.2-17	5.1 - 7.8	---	---	---	---
	40-70	9.4-22	7.1-17	5.6 - 7.8	---	---	---	---
	70-74	---	---	---	---	---	---	---
Wet Spots	---	---	---	---	---	---	---	---
22D2:								
Chilhowie	0-7	12-21	8.7-16	6.1 - 8.4	---	---	---	---
	7-17	21-29	16-22	6.1 - 8.4	---	---	---	---
	17-22	19-29	14-22	6.6 - 8.4	---	---	---	---
	22-26	---	---	---	---	---	---	---
Edom	0-8	9.8-19	7.3-14	5.1 - 7.8	---	---	---	---
	8-40	12-22	9.2-17	5.1 - 7.8	---	---	---	---
	40-70	9.4-22	7.1-17	5.6 - 7.8	---	---	---	---
	70-74	---	---	---	---	---	---	---
Wet Spots	---	---	---	---	---	---	---	---
23C3:								
Chilhowie	0-7	12-21	8.7-16	6.1 - 8.4	---	---	---	---
	7-17	21-29	16-22	6.1 - 8.4	---	---	---	---
	17-22	19-29	14-22	6.6 - 8.4	---	---	---	---
	22-26	---	---	---	---	---	---	---
Edom	0-8	9.8-21	7.3-16	5.1 - 7.8	---	---	---	---
	8-40	12-22	9.2-17	5.1 - 7.8	---	---	---	---
	40-70	9.4-22	7.1-17	5.6 - 7.8	---	---	---	---
	70-74	---	---	---	---	---	---	---

Table J2. - Chemical Properties of the Soils - Continued

Augusta County, Virginia

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
23C3:								
Wet Spots	---	---	---	---	---	---	---	---
23E3:								
Chilhowie	0-7	12-21	8.7-16	6.1 - 8.4	---	---	---	---
	7-17	21-29	16-22	6.1 - 8.4	---	---	---	---
	17-22	19-29	14-22	6.6 - 8.4	---	---	---	---
	22-26	---	---	---	---	---	---	---
Edom	0-8	9.8-21	7.3-16	5.1 - 7.8	---	---	---	---
	8-40	12-22	9.2-17	5.1 - 7.8	---	---	---	---
	40-70	9.4-22	7.1-17	5.6 - 7.8	---	---	---	---
	70-74	---	---	---	---	---	---	---
Wet Spots	---	---	---	---	---	---	---	---
24B2:								
Christian	0-7	5.2-14	3.9-10	3.6 - 5.5	---	---	---	---
	7-13	6.2-11	4.7-8.3	3.6 - 5.5	---	---	---	---
	13-40	8.8-16	6.6-12	3.6 - 5.5	---	---	---	---
	40-70	8.8-16	6.6-12	3.6 - 5.5	---	---	---	---
Wet Spots	---	---	---	---	---	---	---	---
24C2:								
Christian	0-7	5.2-14	3.9-10	3.6 - 5.5	---	---	---	---
	7-13	6.2-11	4.7-8.3	3.6 - 5.5	---	---	---	---
	13-40	8.8-16	6.6-12	3.6 - 5.5	---	---	---	---
	40-70	8.8-16	6.6-12	3.6 - 5.5	---	---	---	---
Wet Spots	---	---	---	---	---	---	---	---
24D2:								
Christian	0-7	5.2-14	3.9-10	3.6 - 5.5	---	---	---	---
	7-13	6.2-11	4.7-8.3	3.6 - 5.5	---	---	---	---
	13-40	8.8-16	6.6-12	3.6 - 5.5	---	---	---	---
	40-70	8.8-16	6.6-12	3.6 - 5.5	---	---	---	---
Wet Spots	---	---	---	---	---	---	---	---
24E2:								
Christian	0-7	5.2-14	3.9-10	3.6 - 5.5	---	---	---	---
	7-13	6.2-11	4.7-8.3	3.6 - 5.5	---	---	---	---
	13-40	8.8-16	6.6-12	3.6 - 5.5	---	---	---	---
	40-70	8.8-16	6.6-12	3.6 - 5.5	---	---	---	---

25C2:

Table J2. - Chemical Properties of the Soils - Continued

Augusta County, Virginia

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
25C2:								
Christian	0-7	5.2-14	3.9-10	3.6 - 5.5	---	---	---	---
	7-13	6.2-11	4.7-8.3	3.6 - 5.5	---	---	---	---
	13-40	8.8-16	6.6-12	3.6 - 5.5	---	---	---	---
	40-70	8.8-16	6.6-12	3.6 - 5.5	---	---	---	---
Wet Spots	---	---	---	---	---	---	---	---
25D2:								
Christian	0-7	5.2-14	3.9-10	3.6 - 5.5	---	---	---	---
	7-13	6.2-11	4.7-8.3	3.6 - 5.5	---	---	---	---
	13-40	8.8-16	6.6-12	3.6 - 5.5	---	---	---	---
	40-70	8.8-16	6.6-12	3.6 - 5.5	---	---	---	---
Wet Spots	---	---	---	---	---	---	---	---
26:								
Cotaco Variant	0-8	8.6-23	6.4-18	4.5 - 5.5	---	---	---	---
	8-61	12-26	9.2-19	4.5 - 5.5	---	---	---	---
	61-98	8.8-26	6.6-19	4.5 - 5.5	---	---	---	---
Purdy	---	---	---	---	---	---	---	---
27:								
Craigsville	0-5	4.0-12	3.0-9.0	4.5 - 5.5	---	---	---	---
	5-27	1.8-6.4	1.3-4.8	4.5 - 5.5	---	---	---	---
	27-60	1.8-4.6	1.3-3.5	4.5 - 5.5	---	---	---	---
Wet Spots	---	---	---	---	---	---	---	---
28:								
Craigsville	0-5	4.0-12	3.0-9.0	4.5 - 5.5	---	---	---	---
	5-27	1.8-6.4	1.3-4.8	4.5 - 5.5	---	---	---	---
	27-60	1.8-4.6	1.3-3.5	4.5 - 5.5	---	---	---	---
Wet Spots	---	---	---	---	---	---	---	---
29E:								
Drall	0-10	2.4-9.0	2.2-6.8	4.5 - 5.5	---	---	---	---
	10-31	2.4-6.0	1.8-4.5	4.5 - 5.5	---	---	---	---
	31-58	1.6-14	1.2-10	4.5 - 5.5	---	---	---	---
	58-62	---	---	---	---	---	---	---
29F:								
Drall	0-10	2.4-9.0	2.2-6.8	4.5 - 5.5	---	---	---	---
	10-31	2.4-6.0	1.8-4.5	4.5 - 5.5	---	---	---	---
	31-58	1.6-14	1.2-10	4.5 - 5.5	---	---	---	---
	58-62	---	---	---	---	---	---	---

Table J2. - Chemical Properties of the Soils - Continued

Augusta County, Virginia

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
29F:								
30B2:								
Edom	0-8	9.8-21	7.3-16	5.1 - 7.8	---	---	---	---
	8-40	12-22	9.2-17	5.1 - 7.8	---	---	---	---
	40-70	9.4-22	7.1-17	5.6 - 7.8	---	---	---	---
	70-74	---	---	---	---	---	---	---
30C2:								
Edom	0-8	9.8-21	7.3-16	5.1 - 7.8	---	---	---	---
	8-40	12-22	9.2-17	5.1 - 7.8	---	---	---	---
	40-70	9.4-22	7.1-17	5.6 - 7.8	---	---	---	---
	70-74	---	---	---	---	---	---	---
30D2:								
Edom	0-8	9.8-21	7.3-16	5.1 - 7.8	---	---	---	---
	8-40	12-22	9.2-17	5.1 - 7.8	---	---	---	---
	40-70	9.4-22	7.1-17	5.6 - 7.8	---	---	---	---
	70-74	---	---	---	---	---	---	---
31B3:								
Edom	0-8	14-23	11-17	5.1 - 7.8	---	---	---	---
	8-40	12-22	9.2-17	5.1 - 7.8	---	---	---	---
	40-70	9.4-22	7.1-17	5.6 - 7.8	---	---	---	---
	70-74	---	---	---	---	---	---	---
31C3:								
Edom	0-8	14-23	11-17	5.1 - 7.8	---	---	---	---
	8-40	12-22	9.2-17	5.1 - 7.8	---	---	---	---
	40-70	9.4-22	7.1-17	5.6 - 7.8	---	---	---	---
	70-74	---	---	---	---	---	---	---
32C2:								
Edom	0-8	14-23	11-17	5.1 - 7.8	---	---	---	---
	8-40	12-22	9.2-17	5.1 - 7.8	---	---	---	---
	40-70	9.4-22	7.1-17	5.6 - 7.8	---	---	---	---
	70-74	---	---	---	---	---	---	---
Rock Outcrop	0-60	---	---	---	---	---	---	---
32E2:								
Edom	0-8	14-23	11-17	5.1 - 7.8	---	---	---	---
	8-40	12-22	9.2-17	5.1 - 7.8	---	---	---	---
	40-70	9.4-22	7.1-17	5.6 - 7.8	---	---	---	---
	70-74	---	---	---	---	---	---	---
Rock Outcrop	0-60	---	---	---	---	---	---	---

Table J2. - Chemical Properties of the Soils - Continued

Augusta County, Virginia

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
33E:								
Elliber	0-11	3.5-11	2.6-8.4	3.6 - 5.5	---	---	---	---
	11-63	1.2-4.9	0.9-3.7	3.6 - 5.5	---	---	---	---
34F:								
Elliber	0-11	3.5-11	2.6-8.4	3.6 - 5.5	---	---	---	---
	11-63	1.2-4.9	0.9-3.7	3.6 - 5.5	---	---	---	---
Jefferson	0-13	3.6-13	2.7-9.8	4.5 - 5.5	---	---	---	---
	13-57	4.5-9.6	3.4-7.2	4.5 - 5.5	---	---	---	---
	57-65	3.8-8.6	2.8-6.5	4.5 - 5.5	---	---	---	---
35B2:								
Endcav	0-6	4.6-13	3.5-9.4	5.1 - 7.3	---	---	---	---
	6-60	21-29	16-22	5.1 - 7.8	---	---	---	---
	60-64	---	---	---	---	---	---	---
Wet Spots	---	---	---	---	---	---	---	---
35C2:								
Endcav	0-6	4.6-13	3.5-9.9	5.1 - 7.3	---	---	---	---
	6-60	21-29	16-22	5.1 - 7.8	---	---	---	---
	60-64	---	---	---	---	---	---	---
Wet Spots	---	---	---	---	---	---	---	---
36B2:								
Endcav	0-6	4.6-13	3.5-9.9	5.1 - 7.3	---	---	---	---
	6-60	21-29	16-22	5.1 - 7.8	---	---	---	---
	60-64	---	---	---	---	---	---	---
Wet Spots	---	---	---	---	---	---	---	---
37C2:								
Endcav	0-6	4.6-13	3.5-9.9	5.1 - 7.3	---	---	---	---
	6-60	21-29	16-22	5.1 - 7.8	---	---	---	---
	60-64	---	---	---	---	---	---	---
Rock Outcrop	0-60	---	---	---	---	---	---	---
Wet Spots	---	---	---	---	---	---	---	---
38B:								
Ernest	0-11	9.8-16	7.3-12	4.5 - 6.0	---	---	---	---
	11-26	7.0-13	5.2-10	4.5 - 5.5	---	---	---	---
	26-42	6.3-12	4.7-8.7	4.5 - 5.5	---	---	---	---
	42-60	7.0-13	5.2-10	4.5 - 5.5	---	---	---	---

Table J2. - Chemical Properties of the Soils - Continued

Augusta County, Virginia

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
38B:								
Wet Spots	---	---	---	---	---	---	---	---
38C:								
Ernest	0-11	9.8-16	7.3-12	4.5 - 6.0	---	---	---	---
	11-26	7.0-13	5.2-10	4.5 - 5.5	---	---	---	---
	26-42	6.3-12	4.7-8.7	4.5 - 5.5	---	---	---	---
	42-60	7.0-13	5.2-10	4.5 - 5.5	---	---	---	---
Wet Spots	---	---	---	---	---	---	---	---
39:								
Fluvaquents	0-9	9.8-18	7.3-13	4.5 - 5.5	---	---	---	---
	9-33	6.3-13	4.7-10	4.5 - 5.5	---	---	---	---
	33-67	4.6-17	3.5-13	4.5 - 5.5	---	---	---	---
Very Poorly Drained Soils	---	---	---	---	---	---	---	---
40B2:								
Frederick	0-7	5.5-11	4.1-8.4	4.5 - 6.0	---	---	---	---
	7-14	8.8-16	6.6-12	4.5 - 6.0	---	---	---	---
	14-50	10-16	7.5-12	4.5 - 6.0	---	---	---	---
	50-70	10-16	7.5-12	4.5 - 6.0	---	---	---	---
Christian	0-7	5.2-14	3.9-10	3.6 - 5.5	---	---	---	---
	7-13	6.2-10	4.7-7.5	3.6 - 5.5	---	---	---	---
	13-40	10-16	7.5-12	3.6 - 5.5	---	---	---	---
	40-70	10-16	7.5-12	3.6 - 5.5	---	---	---	---
Wet Spots	---	---	---	---	---	---	---	---
40C2:								
Frederick	0-7	5.5-11	4.1-8.4	4.5 - 6.0	---	---	---	---
	7-14	8.8-16	6.6-12	4.5 - 6.0	---	---	---	---
	14-50	10-16	7.5-12	4.5 - 6.0	---	---	---	---
	50-70	10-16	7.5-12	4.5 - 6.0	---	---	---	---
Christian	0-7	5.2-14	3.9-10	3.6 - 5.5	---	---	---	---
	7-13	6.2-10	4.7-7.5	3.6 - 5.5	---	---	---	---
	13-40	10-16	7.5-12	3.6 - 5.5	---	---	---	---
	40-70	10-16	7.5-12	3.6 - 5.5	---	---	---	---
Wet Spots	---	---	---	---	---	---	---	---
40D2:								

Table J2. - Chemical Properties of the Soils - Continued

Augusta County, Virginia

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
40D2:								
Frederick	0-7	5.5-11	4.1-8.4	4.5 - 6.0	---	---	---	---
	7-14	8.8-16	6.6-12	4.5 - 6.0	---	---	---	---
	14-50	10-16	7.5-12	4.5 - 6.0	---	---	---	---
	50-70	10-16	7.5-12	4.5 - 6.0	---	---	---	---
Christian	0-7	5.2-14	3.9-10	3.6 - 5.5	---	---	---	---
	7-13	6.2-10	4.7-7.5	3.6 - 5.5	---	---	---	---
	13-40	10-16	7.5-12	3.6 - 5.5	---	---	---	---
	40-70	10-16	7.5-12	3.6 - 5.5	---	---	---	---
Timberville	---	---	---	---	---	---	---	---
40E2:								
Frederick	0-7	5.5-11	4.1-8.4	4.5 - 6.0	---	---	---	---
	7-14	8.8-16	6.6-12	4.5 - 6.0	---	---	---	---
	14-50	10-16	7.5-12	4.5 - 6.0	---	---	---	---
	50-70	10-16	7.5-12	4.5 - 6.0	---	---	---	---
Christian	0-7	5.2-14	3.9-10	3.6 - 5.5	---	---	---	---
	7-13	6.2-10	4.7-7.5	3.6 - 5.5	---	---	---	---
	13-40	10-16	7.5-12	3.6 - 5.5	---	---	---	---
	40-70	10-16	7.5-12	3.6 - 5.5	---	---	---	---
41B3:								
Frederick	0-7	7.9-15	5.9-11	4.5 - 6.0	---	---	---	---
	7-14	8.8-16	6.6-12	4.5 - 6.0	---	---	---	---
	14-50	10-16	7.5-12	4.5 - 6.0	---	---	---	---
	50-70	10-16	7.5-12	4.5 - 6.0	---	---	---	---
Christian	0-7	7.9-15	5.9-11	3.6 - 5.5	---	---	---	---
	7-13	6.2-10	4.7-7.5	3.6 - 5.5	---	---	---	---
	13-40	10-16	7.5-12	3.6 - 5.5	---	---	---	---
	40-70	10-16	7.5-12	3.6 - 5.5	---	---	---	---
Wet Spots	---	---	---	---	---	---	---	---
41C3:								
Frederick	0-7	7.9-15	5.9-11	4.5 - 6.0	---	---	---	---
	7-14	8.8-16	6.6-12	4.5 - 6.0	---	---	---	---
	14-50	10-16	7.5-12	4.5 - 6.0	---	---	---	---
	50-70	10-16	7.5-12	4.5 - 6.0	---	---	---	---
Christian	0-7	7.9-15	5.9-11	3.6 - 5.5	---	---	---	---
	7-13	6.2-10	4.7-7.5	3.6 - 5.5	---	---	---	---
	13-40	10-16	7.5-12	3.6 - 5.5	---	---	---	---
	40-70	10-16	7.5-12	3.6 - 5.5	---	---	---	---
Wet Spots	---	---	---	---	---	---	---	---

Table J2. - Chemical Properties of the Soils - Continued

Augusta County, Virginia

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
41C3:								
41D3:								
Frederick	0-7	7.9-15	5.9-11	4.5 - 6.0	---	---	---	---
	7-14	8.8-16	6.6-12	4.5 - 6.0	---	---	---	---
	14-50	10-16	7.5-12	4.5 - 6.0	---	---	---	---
	50-70	10-16	7.5-12	4.5 - 6.0	---	---	---	---
Christian	0-7	7.9-15	5.9-11	3.6 - 5.5	---	---	---	---
	7-13	6.2-10	4.7-7.5	3.6 - 5.5	---	---	---	---
	13-40	10-16	7.5-12	3.6 - 5.5	---	---	---	---
	40-70	10-16	7.5-12	3.6 - 5.5	---	---	---	---
42B2:								
Frederick	0-7	5.5-11	4.1-8.4	4.5 - 6.0	---	---	---	---
	7-14	8.8-16	6.6-12	4.5 - 6.0	---	---	---	---
	14-50	10-16	7.5-12	4.5 - 6.0	---	---	---	---
	50-70	10-16	7.5-12	4.5 - 6.0	---	---	---	---
Christian	0-7	4.8-17	3.6-13	3.6 - 5.5	---	---	---	---
	7-13	6.2-10	4.7-7.5	3.6 - 5.5	---	---	---	---
	13-40	10-16	7.5-12	3.6 - 5.5	---	---	---	---
	40-70	10-16	7.5-12	3.6 - 5.5	---	---	---	---
Wet Spots	---	---	---	---	---	---	---	---
42C2:								
Frederick	0-7	5.5-11	4.1-8.4	4.5 - 6.0	---	---	---	---
	7-14	8.8-16	6.6-12	4.5 - 6.0	---	---	---	---
	14-50	10-16	7.5-12	4.5 - 6.0	---	---	---	---
	50-70	10-16	7.5-12	4.5 - 6.0	---	---	---	---
Christian	0-7	4.8-17	3.6-13	3.6 - 5.5	---	---	---	---
	7-13	6.2-10	4.7-7.5	3.6 - 5.5	---	---	---	---
	13-40	10-16	7.5-12	3.6 - 5.5	---	---	---	---
	40-70	10-16	7.5-12	3.6 - 5.5	---	---	---	---
Wet Spots	---	---	---	---	---	---	---	---
42D2:								
Frederick	0-7	5.5-11	4.1-8.4	4.5 - 6.0	---	---	---	---
	7-14	8.8-16	6.6-12	4.5 - 6.0	---	---	---	---
	14-50	10-16	7.5-12	4.5 - 6.0	---	---	---	---
	50-70	10-16	7.5-12	4.5 - 6.0	---	---	---	---
Christian	0-7	4.8-17	3.6-13	3.6 - 5.5	---	---	---	---
	7-13	6.2-10	4.7-7.5	3.6 - 5.5	---	---	---	---
	13-40	10-16	7.5-12	3.6 - 5.5	---	---	---	---
	40-70	10-16	7.5-12	3.6 - 5.5	---	---	---	---

Table J2. - Chemical Properties of the Soils - Continued

Augusta County, Virginia

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
42D2:								
Wet Spots	---	---	---	---	---	---	---	---
42E2:								
Frederick	0-7	5.5-11	4.1-8.4	4.5 - 6.0	---	---	---	---
	7-14	8.8-16	6.6-12	4.5 - 6.0	---	---	---	---
	14-50	10-16	7.5-12	4.5 - 6.0	---	---	---	---
	50-70	10-16	7.5-12	4.5 - 6.0	---	---	---	---
Christian	0-7	4.8-17	3.6-13	3.6 - 5.5	---	---	---	---
	7-13	6.2-10	4.7-7.5	3.6 - 5.5	---	---	---	---
	13-40	10-16	7.5-12	3.6 - 5.5	---	---	---	---
	40-70	10-16	7.5-12	3.6 - 5.5	---	---	---	---
43C:								
Frederick	0-7	5.5-11	4.1-8.4	4.5 - 6.0	---	---	---	---
	7-14	8.8-16	6.6-12	4.5 - 6.0	---	---	---	---
	14-50	10-16	7.5-12	4.5 - 6.0	---	---	---	---
	50-70	10-16	7.5-12	4.5 - 6.0	---	---	---	---
Christian	0-7	3.6-11	2.7-8.4	3.6 - 5.5	---	---	---	---
	7-13	6.2-10	4.7-7.5	3.6 - 5.5	---	---	---	---
	13-40	10-16	7.5-12	3.6 - 5.5	---	---	---	---
	40-70	10-16	7.5-12	3.6 - 5.5	---	---	---	---
Wet Spots	---	---	---	---	---	---	---	---
43D:								
Frederick	0-7	5.5-11	4.1-8.4	4.5 - 6.0	---	---	---	---
	7-14	8.8-16	6.6-12	4.5 - 6.0	---	---	---	---
	14-50	10-16	7.5-12	4.5 - 6.0	---	---	---	---
	50-70	10-16	7.5-12	4.5 - 6.0	---	---	---	---
Christian	0-7	6.1-15	4.6-11	3.6 - 5.5	---	---	---	---
	7-13	6.2-10	4.7-7.5	3.6 - 5.5	---	---	---	---
	13-40	10-16	7.5-12	3.6 - 5.5	---	---	---	---
	40-70	10-16	7.5-12	3.6 - 5.5	---	---	---	---
Wet Spots	---	---	---	---	---	---	---	---
43E:								
Frederick	0-7	5.5-11	4.1-8.4	4.5 - 6.0	---	---	---	---
	7-14	8.8-16	6.6-12	4.5 - 6.0	---	---	---	---
	14-50	10-16	7.5-12	4.5 - 6.0	---	---	---	---
	50-70	10-16	7.5-12	4.5 - 6.0	---	---	---	---

Table J2. - Chemical Properties of the Soils - Continued

Augusta County, Virginia

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
43E:								
Christian	0-7	6.1-15	4.6-11	3.6 - 5.5	---	---	---	---
	7-13	6.2-10	4.7-7.5	3.6 - 5.5	---	---	---	---
	13-40	10-16	7.5-12	3.6 - 5.5	---	---	---	---
	40-70	10-16	7.5-12	3.6 - 5.5	---	---	---	---
44B2:								
Frederick	0-7	5.5-11	4.1-8.4	4.5 - 6.0	---	---	---	---
	7-14	8.8-16	6.6-12	4.5 - 6.0	---	---	---	---
	14-50	10-16	7.5-12	4.5 - 6.0	---	---	---	---
	50-70	10-16	7.5-12	4.5 - 6.0	---	---	---	---
Christian	0-7	5.2-14	3.9-10	3.6 - 5.5	---	---	---	---
	7-13	6.2-10	4.7-7.5	3.6 - 5.5	---	---	---	---
	13-40	10-16	7.5-12	3.6 - 5.5	---	---	---	---
	40-70	10-16	7.5-12	3.6 - 5.5	---	---	---	---
Wet Spots	---	---	---	---	---	---	---	---
44C2:								
Frederick	0-7	5.5-11	4.1-8.4	4.5 - 6.0	---	---	---	---
	7-14	8.8-16	6.6-12	4.5 - 6.0	---	---	---	---
	14-50	10-16	7.5-12	4.5 - 6.0	---	---	---	---
	50-70	10-16	7.5-12	4.5 - 6.0	---	---	---	---
Christian	0-7	5.2-14	3.9-10	3.6 - 5.5	---	---	---	---
	7-13	6.2-10	4.7-7.5	3.6 - 5.5	---	---	---	---
	13-40	10-16	7.5-12	3.6 - 5.5	---	---	---	---
	40-70	10-16	7.5-12	3.6 - 5.5	---	---	---	---
Wet Spots	---	---	---	---	---	---	---	---
44D2:								
Frederick	0-7	5.5-11	4.1-8.4	4.5 - 6.0	---	---	---	---
	7-14	8.8-16	6.6-12	4.5 - 6.0	---	---	---	---
	14-50	10-16	7.5-12	4.5 - 6.0	---	---	---	---
	50-70	10-16	7.5-12	4.5 - 6.0	---	---	---	---
Christian	0-7	5.2-14	3.9-10	3.6 - 5.5	---	---	---	---
	7-13	6.2-10	4.7-7.5	3.6 - 5.5	---	---	---	---
	13-40	10-16	7.5-12	3.6 - 5.5	---	---	---	---
	40-70	10-16	7.5-12	3.6 - 5.5	---	---	---	---
Wet Spots	---	---	---	---	---	---	---	---
44E2:								

Table J2. - Chemical Properties of the Soils - Continued

Augusta County, Virginia

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
44E2:								
Frederick	0-7	5.5-11	4.1-8.4	4.5 - 6.0	---	---	---	---
	7-14	8.8-16	6.6-12	4.5 - 6.0	---	---	---	---
	14-50	10-16	7.5-12	4.5 - 6.0	---	---	---	---
	50-70	10-16	7.5-12	4.5 - 6.0	---	---	---	---
Christian	0-7	5.2-14	3.9-10	3.6 - 5.5	---	---	---	---
	7-13	6.2-10	4.7-7.5	3.6 - 5.5	---	---	---	---
	13-40	10-16	7.5-12	3.6 - 5.5	---	---	---	---
	40-70	10-16	7.5-12	3.6 - 5.5	---	---	---	---
45C2:								
Frederick	0-7	5.5-11	4.1-8.4	4.5 - 6.0	---	---	---	---
	7-14	8.8-16	6.6-12	4.5 - 6.0	---	---	---	---
	14-50	10-16	7.5-12	4.5 - 6.0	---	---	---	---
	50-70	10-16	7.5-12	4.5 - 6.0	---	---	---	---
Rock Outcrop	0-60	---	---	---	---	---	---	---
45E2:								
Frederick	0-7	5.5-11	4.1-8.4	4.5 - 6.0	---	---	---	---
	7-14	8.8-16	6.6-12	4.5 - 6.0	---	---	---	---
	14-50	10-16	7.5-12	4.5 - 6.0	---	---	---	---
	50-70	10-16	7.5-12	4.5 - 6.0	---	---	---	---
Rock Outcrop	0-60	---	---	---	---	---	---	---
Wet Spots	---	---	---	---	---	---	---	---
46B:								
Frederick	0-7	5.5-11	4.1-8.4	4.5 - 6.0	---	---	---	---
	7-14	8.8-16	6.6-12	4.5 - 6.0	---	---	---	---
	14-50	10-16	7.5-12	4.5 - 6.0	---	---	---	---
	50-70	10-16	7.5-12	4.5 - 6.0	---	---	---	---
Nixa	0-15	5.2-13	3.9-9.8	4.5 - 5.5	---	---	---	---
	15-34	4.1-8.5	3.1-6.4	4.5 - 5.5	---	---	---	---
	34-64	5.0-9.9	3.8-7.4	4.5 - 5.5	---	---	---	---
	64-68	5.0-9.9	3.8-7.4	4.5 - 5.5	---	---	---	---
Wet Spots	---	---	---	---	---	---	---	---
46C:								
Frederick	0-7	5.5-11	4.1-8.4	4.5 - 6.0	---	---	---	---
	7-14	8.8-16	6.6-12	4.5 - 6.0	---	---	---	---
	14-50	10-16	7.5-12	4.5 - 6.0	---	---	---	---
	50-70	10-16	7.5-12	4.5 - 6.0	---	---	---	---

Table J2. - Chemical Properties of the Soils - Continued

Augusta County, Virginia

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
46C:								
Nixa	0-15	5.2-13	3.9-9.8	4.5 - 5.5	---	---	---	---
	15-34	4.1-8.5	3.1-6.4	4.5 - 5.5	---	---	---	---
	34-64	5.0-9.9	3.8-7.4	4.5 - 5.5	---	---	---	---
	64-68	5.0-9.9	3.8-7.4	4.5 - 5.5	---	---	---	---
Wet Spots	---	---	---	---	---	---	---	---
47C:								
Guernsey	0-6	6.8-16	5.1-12	4.5 - 7.3	---	---	---	---
	6-13	8.8-16	6.6-12	4.5 - 6.0	---	---	---	---
	13-40	12-22	9.2-17	4.5 - 7.8	---	---	---	---
	40-60	12-22	9.2-17	5.1 - 8.4	---	---	---	---
	60-64	---	---	---	---	---	---	---
Poorly Drained Soils	---	---	---	---	---	---	---	---
48E:								
Hartleton	0-6	5.8-16	4.3-12	4.5 - 5.5	---	---	---	---
	6-13	5.2-12	3.9-8.7	4.5 - 5.5	---	---	---	---
	13-25	5.2-11	3.9-7.9	4.5 - 5.5	---	---	---	---
	25-50	---	---	---	---	---	---	---
	50-54	---	---	---	---	---	---	---
49F:								
Hartleton	0-6	5.8-16	4.3-12	4.5 - 5.5	---	---	---	---
	6-33	5.2-12	3.9-8.7	4.5 - 5.5	---	---	---	---
	33-50	5.2-11	3.9-7.9	4.5 - 5.5	---	---	---	---
	50-54	---	---	---	---	---	---	---
	54-58	---	---	---	---	---	---	---
50D:								
Hazleton	0-10	6.2-14	4.7-10	3.6 - 5.5	---	---	---	---
	10-27	1.8-5.6	1.3-4.2	3.6 - 5.5	---	---	---	---
	27-68	1.2-4.9	0.9-3.7	3.6 - 5.5	---	---	---	---
	68-72	---	---	---	---	---	---	---
50E:								
Hazleton	0-10	6.2-14	4.7-10	3.6 - 5.5	---	---	---	---
	10-27	1.8-5.6	1.3-4.2	3.6 - 5.5	---	---	---	---
	27-68	1.2-4.9	0.9-3.7	3.6 - 5.5	---	---	---	---
	68-72	---	---	---	---	---	---	---
51D:								
Hazleton	0-10	6.2-14	4.7-10	3.6 - 5.5	---	---	---	---
	10-27	1.8-5.6	1.3-4.2	3.6 - 5.5	---	---	---	---
	27-68	1.2-4.9	0.9-3.7	3.6 - 5.5	---	---	---	---
	68-72	---	---	---	---	---	---	---

Table J2. - Chemical Properties of the Soils - Continued

Augusta County, Virginia

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
51F:								
Hazleton	0-10	6.2-14	4.7-10	3.6 - 5.5	---	---	---	---
	10-27	1.8-5.6	1.3-4.2	3.6 - 5.5	---	---	---	---
	27-68	1.2-4.9	0.9-3.7	3.6 - 5.5	---	---	---	---
	68-72	---	---	---	---	---	---	---
52F:								
Hazleton	0-10	6.2-14	4.7-10	3.6 - 5.5	---	---	---	---
	10-27	1.8-5.6	1.3-4.2	3.6 - 5.5	---	---	---	---
	27-68	1.2-4.9	0.9-3.7	3.6 - 5.5	---	---	---	---
	68-72	---	---	---	---	---	---	---
Lehew	0-7	5.5-13	4.1-9.8	4.5 - 5.5	---	---	---	---
	7-32	1.2-5.6	0.9-4.2	4.5 - 5.5	---	---	---	---
	32-36	1.2-5.6	0.9-4.2	4.5 - 5.5	---	---	---	---
	36-40	---	---	---	---	---	---	---
53C:								
Jefferson	0-13	3.6-13	2.7-9.8	4.5 - 5.5	---	---	---	---
	13-44	4.5-9.6	3.4-7.2	4.5 - 5.5	---	---	---	---
	44-65	3.8-8.6	2.8-6.5	4.5 - 5.5	---	---	---	---
53D:								
Jefferson	0-13	3.6-13	2.7-9.8	4.5 - 5.5	---	---	---	---
	13-44	4.5-9.6	3.4-7.2	4.5 - 5.5	---	---	---	---
	44-65	3.8-8.6	2.8-6.5	4.5 - 5.5	---	---	---	---
54C:								
Leetonia	0-7	1.9-7.0	1.4-5.2	3.6 - 5.0	---	---	---	---
	7-20	0.8-4.9	0.6-3.7	3.6 - 5.0	---	---	---	---
	20-45	0.8-3.6	0.6-2.7	3.6 - 5.0	---	---	---	---
	45-48	---	---	---	---	---	---	---
54E:								
Leetonia	0-7	1.9-7.0	1.4-5.2	3.6 - 5.0	---	---	---	---
	7-20	0.8-4.9	0.6-3.7	3.6 - 5.0	---	---	---	---
	20-45	0.8-3.6	0.6-2.7	3.6 - 5.0	---	---	---	---
	45-48	---	---	---	---	---	---	---
55D:								
Lehew	0-7	3.2-13	2.4-9.8	4.5 - 5.5	---	---	---	---
	7-26	1.2-5.6	0.9-4.2	4.5 - 5.5	---	---	---	---
	26-32	1.2-5.6	0.9-4.2	4.5 - 5.5	---	---	---	---
	32-36	---	---	---	---	---	---	---
56D:								

Table J2. - Chemical Properties of the Soils - Continued

Augusta County, Virginia

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
56D:								
Lehew	0-7	3.2-13	2.4-9.8	4.5 - 5.5	---	---	---	---
	7-26	1.2-5.6	0.9-4.2	4.5 - 5.5	---	---	---	---
	26-32	1.2-5.6	0.9-4.2	4.5 - 5.5	---	---	---	---
	32-36	---	---	---	---	---	---	---
57E:								
Lehew	0-7	5.8-13	4.3-9.8	4.5 - 5.5	---	---	---	---
	7-26	1.2-5.6	0.9-4.2	4.5 - 5.5	---	---	---	---
	26-32	1.2-5.6	0.9-4.2	4.5 - 5.5	---	---	---	---
	32-36	---	---	---	---	---	---	---
57F:								
Lehew	0-7	5.8-13	4.3-9.8	4.5 - 5.5	---	---	---	---
	7-26	1.2-5.6	0.9-4.2	4.5 - 5.5	---	---	---	---
	26-32	1.2-5.6	0.9-4.2	4.5 - 5.5	---	---	---	---
	32-36	---	---	---	---	---	---	---
58D:								
Lew	0-11	5.8-13	4.3-9.9	4.5 - 6.0	---	---	---	---
	11-72	9.8-13	7.4-10	4.5 - 6.0	---	---	---	---
59E:								
Lew	0-11	5.8-13	4.3-9.9	4.5 - 6.0	---	---	---	---
	11-72	9.8-13	7.4-10	4.5 - 6.0	---	---	---	---
59F:								
Lew	0-11	5.8-13	4.3-9.9	4.5 - 6.0	---	---	---	---
	11-72	9.8-13	7.4-10	4.5 - 6.0	---	---	---	---
60:								
Massanetta	0-9	16-27	12-20	7.4 - 8.4	0-10	---	---	---
	9-44	9.2-16	6.9-12	7.4 - 8.4	0-10	---	---	---
	44-74	7.0-19	5.2-14	7.4 - 8.4	0-10	---	---	---
	74-78	---	---	---	---	---	---	---
Wet Soils	---	---	---	---	---	---	---	---
61B:								
Millrock	0-8	3.0-8.0	2.2-6.0	6.1 - 7.3	---	---	---	---
	8-43	0.7-4.6	0.5-3.5	6.1 - 7.3	---	---	---	---
	43-60	0.7-4.6	0.5-3.5	6.1 - 7.3	---	---	---	---
Frequented Flooded Soils	---	---	---	---	---	---	---	---
62B:								

Table J2. - Chemical Properties of the Soils - Continued

Augusta County, Virginia

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
62B:								
Monongahela	0-9	8.0-18	6.0-14	4.5 - 5.5	---	---	---	---
	9-28	6.3-13	4.7-10	4.5 - 5.5	---	---	---	---
	28-53	6.3-13	4.7-10	4.5 - 5.5	---	---	---	---
	53-62	3.5-13	2.6-10	4.5 - 5.5	---	---	---	---
Purdy	---	---	---	---	---	---	---	---
Wet Spots	---	---	---	---	---	---	---	---
62C:								
Monongahela	0-9	8.0-18	6.0-14	4.5 - 5.5	---	---	---	---
	9-28	6.3-13	4.7-10	4.5 - 5.5	---	---	---	---
	28-53	6.3-13	4.7-10	4.5 - 5.5	---	---	---	---
	53-62	3.5-13	2.6-10	4.5 - 5.5	---	---	---	---
Purdy	---	---	---	---	---	---	---	---
Wet Spots	---	---	---	---	---	---	---	---
63B:								
Monongahela	0-9	8.0-18	6.0-14	4.5 - 5.5	---	---	---	---
	9-28	6.3-13	4.7-10	4.5 - 5.5	---	---	---	---
	28-53	6.3-13	4.7-10	4.5 - 5.5	---	---	---	---
	53-62	3.5-13	2.6-10	4.5 - 5.5	---	---	---	---
Purdy	---	---	---	---	---	---	---	---
Wet Spots	---	---	---	---	---	---	---	---
63C:								
Monongahela	0-9	8.0-18	6.0-14	4.5 - 5.5	---	---	---	---
	9-28	6.3-13	4.7-10	4.5 - 5.5	---	---	---	---
	28-53	6.3-13	4.7-10	4.5 - 5.5	---	---	---	---
	53-62	3.5-13	2.6-10	4.5 - 5.5	---	---	---	---
Purdy	---	---	---	---	---	---	---	---
Wet Spots	---	---	---	---	---	---	---	---
64C:								
Nixa	0-15	5.2-13	3.9-9.8	4.5 - 5.5	---	---	---	---
	15-40	4.1-8.5	3.1-6.4	4.5 - 5.5	---	---	---	---
	40-64	5.0-9.9	3.8-7.4	4.5 - 5.5	---	---	---	---
	64-68	5.0-9.9	3.8-7.4	4.5 - 5.5	---	---	---	---
Wet Spots	---	---	---	---	---	---	---	---

Table J2. - Chemical Properties of the Soils - Continued

Augusta County, Virginia

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
64D:								
Nixa	0-15	5.2-13	3.9-9.8	4.5 - 5.5	---	---	---	---
	15-40	4.1-8.5	3.1-6.4	4.5 - 5.5	---	---	---	---
	40-64	5.0-9.9	3.8-7.4	4.5 - 5.5	---	---	---	---
	64-68	5.0-9.9	3.8-7.4	4.5 - 5.5	---	---	---	---
Wet Spots	---	---	---	---	---	---	---	---
65E:								
Opequon	0-6	12-25	8.8-19	5.1 - 7.8	---	---	---	---
	6-13	12-27	9.2-21	5.1 - 7.8	---	---	---	---
	13-17	---	---	---	---	---	---	---
Rock Outcrop	0-60	---	---	---	---	---	---	---
66:								
Philo	0-7	8.0-15	6.0-12	4.5 - 6.0	---	---	---	---
	7-33	3.5-7.4	2.6-5.6	4.5 - 6.0	---	---	---	---
	33-60	1.8-7.4	1.3-5.6	4.5 - 6.0	---	---	---	---
Wet Spots	---	---	---	---	---	---	---	---
66X:								
Pits And Dumps	0-60	---	---	---	---	---	---	---
67:								
Purdy	0-3	11-21	8.1-16	3.6 - 5.5	---	---	---	---
	3-43	12-19	9.2-14	3.6 - 5.5	---	---	---	---
	43-60	12-19	9.2-14	3.6 - 5.5	---	---	---	---
Ponded Soils	---	---	---	---	---	---	---	---
Very Poorly Drained Soils	---	---	---	---	---	---	---	---
68E:								
Rock Outcrop	0-60	---	---	---	---	---	---	---
Chilhowie	0-7	12-21	8.7-16	6.1 - 8.4	---	---	---	---
	7-17	21-29	16-22	6.1 - 8.4	---	---	---	---
	17-22	11-29	7.9-22	6.6 - 8.4	---	---	---	---
	22-26	---	---	---	---	---	---	---
69F:								
Rock Outcrop	0-60	---	---	---	---	---	---	---

Table J2. - Chemical Properties of the Soils - Continued

Augusta County, Virginia

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
69F:								
Drall	0-10	0.5-3.6	0.4-2.7	4.5 - 5.0	---	---	---	---
	10-31	2.4-6.0	1.8-4.5	4.5 - 5.5	---	---	---	---
	31-58	1.6-14	1.2-10	4.5 - 5.5	---	---	---	---
	58-62	---	---	---	---	---	---	---
70C:								
Rock Outcrop	0-60	---	---	---	---	---	---	---
Frederick	0-7	5.5-11	4.1-8.4	4.5 - 6.0	---	---	---	---
	7-14	8.8-16	6.6-12	4.5 - 6.0	---	---	---	---
	14-50	10-16	7.5-12	4.5 - 6.0	---	---	---	---
	50-70	10-16	7.5-12	4.5 - 6.0	---	---	---	---
Wet Spots	---	---	---	---	---	---	---	---
70E:								
Rock Outcrop	0-60	---	---	---	---	---	---	---
Frederick	0-7	5.5-11	4.1-8.4	4.5 - 6.0	---	---	---	---
	7-14	8.8-16	6.6-12	4.5 - 6.0	---	---	---	---
	14-50	10-16	7.5-12	4.5 - 6.0	---	---	---	---
	50-70	10-16	7.5-12	4.5 - 6.0	---	---	---	---
Wet Spots	---	---	---	---	---	---	---	---
71:								
Rubble Land	0-60	---	---	---	---	---	---	---
72F:								
Rushtown	0-10	8.6-16	6.4-12	4.5 - 6.0	---	---	---	---
	10-25	6.3-11	4.7-7.9	4.5 - 6.0	---	---	---	---
	25-60	6.3-11	4.7-7.9	4.5 - 6.0	---	---	---	---
73B2:								
Sequoia	0-8	4.9-11	3.7-8.4	4.5 - 5.5	---	---	---	---
	8-32	8.8-16	6.4-12	4.5 - 5.5	---	---	---	---
	32-60	---	---	---	---	---	---	---
Wet Soils	---	---	---	---	---	---	---	---
73C2:								
Sequoia	0-8	4.9-11	3.7-8.4	4.5 - 5.5	---	---	---	---
	8-32	8.8-16	6.4-12	4.5 - 5.5	---	---	---	---
	32-60	---	---	---	---	---	---	---
Wet Soils	---	---	---	---	---	---	---	---

Table J2. - Chemical Properties of the Soils - Continued

Augusta County, Virginia

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
74B2:								
Sequoia	0-8	4.9-11	3.7-8.4	4.5 - 5.5	---	---	---	---
	8-32	8.8-16	6.4-12	4.5 - 5.5	---	---	---	---
	32-60	---	---	---	---	---	---	---
Berks	0-10	6.2-17	4.7-13	3.6 - 6.5	---	---	---	---
	10-27	1.8-12	1.3-9.2	3.6 - 6.5	---	---	---	---
	27-30	1.8-8.1	1.3-6.1	3.6 - 6.5	---	---	---	---
	30-34	---	---	---	---	---	---	---
Wet Soils	---	---	---	---	---	---	---	---
74C2:								
Sequoia	0-8	4.9-11	3.7-8.4	4.5 - 5.5	---	---	---	---
	8-32	8.8-16	6.4-12	4.5 - 5.5	---	---	---	---
	32-60	---	---	---	---	---	---	---
Berks	0-10	6.2-17	4.7-13	3.6 - 6.5	---	---	---	---
	10-27	1.8-12	1.3-9.2	3.6 - 6.5	---	---	---	---
	27-30	1.8-8.1	1.3-6.1	3.6 - 6.5	---	---	---	---
	30-34	---	---	---	---	---	---	---
74D2:								
Sequoia	0-8	4.9-11	3.7-8.4	4.5 - 5.5	---	---	---	---
	8-32	8.8-16	6.4-12	4.5 - 5.5	---	---	---	---
	32-60	---	---	---	---	---	---	---
Berks	0-10	6.2-17	4.7-13	3.6 - 6.5	---	---	---	---
	10-27	1.8-12	1.3-9.2	3.6 - 6.5	---	---	---	---
	27-30	1.8-8.1	1.3-6.1	3.6 - 6.5	---	---	---	---
	30-34	---	---	---	---	---	---	---
Wet Spots	---	---	---	---	---	---	---	---
75B2:								
Shenval	0-9	4.6-11	3.5-8.1	5.1 - 6.0	---	---	---	---
	9-76	12-22	9.2-17	4.5 - 6.0	---	---	---	---
75C2:								
Shenval	0-9	4.6-11	3.5-8.1	5.1 - 6.0	---	---	---	---
	9-76	12-22	9.2-17	4.5 - 6.0	---	---	---	---
75D2:								
Shenval	0-9	4.6-11	3.5-8.1	5.1 - 6.0	---	---	---	---
	9-76	12-22	9.2-17	4.5 - 6.0	---	---	---	---
76C:								
Shenval	0-9	4.6-11	3.5-8.1	5.1 - 6.0	---	---	---	---
	9-76	12-22	9.2-17	4.5 - 6.0	---	---	---	---

Table J2. - Chemical Properties of the Soils - Continued

Augusta County, Virginia

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
76C:								
76D:								
Shenval	0-9	4.6-11	3.5-8.1	5.1 - 6.0	---	---	---	---
	9-76	12-22	9.2-17	4.5 - 6.0	---	---	---	---
77C:								
Sherando	0-6	2.4-8.2	1.8-6.2	3.6 - 6.0	---	---	---	---
	6-15	2.5-6.1	1.9-4.6	4.5 - 5.5	---	---	---	---
	15-45	2.5-6.1	1.9-4.6	4.5 - 5.5	---	---	---	---
	45-75	1.2-3.6	0.9-2.7	4.5 - 5.5	---	---	---	---
77D:								
Sherando	0-6	2.4-8.2	1.8-6.2	3.6 - 6.0	---	---	---	---
	6-15	2.5-6.1	1.9-4.6	4.5 - 5.5	---	---	---	---
	15-45	2.5-6.1	1.9-4.6	4.5 - 5.5	---	---	---	---
	45-75	1.2-3.9	0.9-2.7	4.5 - 5.5	---	---	---	---
78C:								
Sherando	0-6	2.4-8.2	1.8-6.2	3.6 - 6.0	---	---	---	---
	6-15	2.5-6.1	1.9-4.6	4.5 - 5.5	---	---	---	---
	15-45	2.5-6.1	1.9-4.6	4.5 - 5.5	---	---	---	---
	45-75	1.2-3.6	0.9-2.7	4.5 - 5.5	---	---	---	---
78E:								
Sherando	0-6	2.4-8.2	1.8-6.2	3.6 - 6.0	---	---	---	---
	6-15	2.5-6.1	1.9-4.6	4.5 - 5.5	---	---	---	---
	15-45	2.5-6.1	1.9-4.6	4.5 - 5.5	---	---	---	---
	45-75	1.2-3.6	0.9-2.7	4.5 - 5.5	---	---	---	---
79B:								
Timberville	0-9	4.3-16	3.3-12	3.6 - 6.5	---	---	---	---
	9-27	7.4-15	5.6-11	3.6 - 6.5	---	---	---	---
	27-60	12-22	9.2-17	3.6 - 6.5	---	---	---	---
Frequently Flooded Soils	---	---	---	---	---	---	---	---
80B:								
Timberville	0-9	4.3-16	3.3-12	3.6 - 6.5	---	---	---	---
	9-27	7.4-15	5.6-11	3.6 - 6.5	---	---	---	---
	27-60	12-22	9.2-17	3.6 - 6.5	---	---	---	---
Frequently Flooded Soils	---	---	---	---	---	---	---	---
81:								
Tioga	0-9	6.2-20	4.7-15	5.1 - 7.3	---	---	---	---
	9-30	1.8-8.6	1.3-6.4	5.1 - 7.3	---	---	---	---
	30-60	1.1-7.5	0.8-5.6	5.6 - 7.8	---	---	---	---

Table J2. - Chemical Properties of the Soils - Continued

Augusta County, Virginia

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
81:								
82:								
Udifluvents	0-7	8.0-18	6.0-14	6.6 - 8.4	---	---	---	---
	7-54	6.3-13	4.7-10	7.4 - 8.4	---	---	---	---
	54-90	1.8-5.7	1.3-4.3	7.4 - 8.4	---	---	---	---
Fluvaquents	---	---	---	---	---	---	---	---
Wet Spots	---	---	---	---	---	---	---	---
83:								
Udorthents	---	---	---	---	---	---	---	---
Frequently Flooded Soils	---	---	---	---	---	---	---	---
84:								
Udorthents	---	---	---	---	---	---	---	---
Wet Spots	---	---	---	---	---	---	---	---
85:								
Udorthents	---	---	---	---	---	---	---	---
Wet Spots	---	---	---	---	---	---	---	---
86B:								
Unison	0-9	4.8-13	3.6-9.8	4.5 - 6.0	---	---	---	---
	9-60	8.8-16	6.6-12	4.5 - 6.0	---	---	---	---
	60-77	3.8-14	2.8-10	4.5 - 6.0	---	---	---	---
86C2:								
Unison	0-9	4.8-13	3.6-9.8	4.5 - 6.0	---	---	---	---
	9-60	8.8-16	6.6-12	4.5 - 6.0	---	---	---	---
	60-77	5.0-14	3.8-10	4.5 - 6.0	---	---	---	---
86D2:								
Unison	0-9	4.8-13	3.6-9.8	4.5 - 6.0	---	---	---	---
	9-60	8.8-16	6.6-12	4.5 - 6.0	---	---	---	---
	60-77	5.0-14	3.8-10	4.5 - 6.0	---	---	---	---
87B:								
Unison	0-9	4.8-13	3.6-9.8	4.5 - 6.0	---	---	---	---
	9-60	8.8-16	6.6-12	4.5 - 6.0	---	---	---	---
	60-77	5.0-14	3.8-10	4.5 - 6.0	---	---	---	---
87C:								

Table J2. - Chemical Properties of the Soils - Continued

Augusta County, Virginia

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
87C:								
Unison	0-9	4.8-13	3.6-9.8	4.5 - 6.0	---	---	---	---
	9-60	8.8-16	6.6-12	4.5 - 6.0	---	---	---	---
	60-77	5.0-14	3.8-10	4.5 - 6.0	---	---	---	---
87E:								
Unison	0-9	4.8-13	3.6-9.8	4.5 - 6.0	---	---	---	---
	9-60	8.8-16	6.6-12	4.5 - 6.0	---	---	---	---
	60-77	5.0-14	3.8-10	4.5 - 6.0	---	---	---	---
88:								
Urban Land	---	---	---	---	---	---	---	---
89D3:								
Weikert	0-5	7.5-16	5.6-12	4.5 - 6.0	---	---	---	---
	5-13	5.2-11	3.9-7.9	4.5 - 6.0	---	---	---	---
	13-17	---	---	---	---	---	---	---
Wet Areas	---	---	---	---	---	---	---	---
89E3:								
Weikert	0-5	7.5-16	5.6-12	4.5 - 6.0	---	---	---	---
	5-13	5.2-11	3.9-7.9	4.5 - 6.0	---	---	---	---
	13-17	---	---	---	---	---	---	---
89F3:								
Weikert	0-5	7.5-16	5.6-12	4.5 - 6.0	---	---	---	---
	5-13	5.2-11	3.9-7.9	4.5 - 6.0	---	---	---	---
	13-17	---	---	---	---	---	---	---
Wet Soils	---	---	---	---	---	---	---	---
90D2:								
Weikert	0-5	7.5-16	5.6-12	4.5 - 6.0	---	---	---	---
	5-13	5.2-11	3.9-7.9	4.5 - 6.0	---	---	---	---
	13-17	---	---	---	---	---	---	---
Berks	0-10	6.2-17	4.7-13	3.6 - 6.5	---	---	---	---
	10-27	1.8-12	1.3-9.2	3.6 - 6.5	---	---	---	---
	27-30	1.8-8.1	1.3-6.1	3.6 - 6.5	---	---	---	---
	30-34	---	---	---	---	---	---	---
Wet Areas	---	---	---	---	---	---	---	---
90E3:								
Weikert	0-5	7.5-16	5.6-12	4.5 - 6.0	---	---	---	---
	5-17	5.2-11	3.9-7.9	4.5 - 6.0	---	---	---	---
	17-21	---	---	---	---	---	---	---

Table J2. - Chemical Properties of the Soils - Continued

Augusta County, Virginia

Map Symbol and Soil Name	Depth	Cation Exchange Capacity	Effective Cation Exchange Capacity	Soil Reaction	Calcium Carbon- ate	Gypsum	Salinity	Sodium Adsorp- tion Ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
90E3:								
Berks	0-10	6.2-17	4.7-13	3.6 - 6.5	---	---	---	---
	10-26	1.8-12	1.3-9.2	3.6 - 6.5	---	---	---	---
	26-33	1.8-8.1	1.3-6.1	3.6 - 6.5	---	---	---	---
	33-37	---	---	---	---	---	---	---
Wet Areas	---	---	---	---	---	---	---	---
91B:								
Wheeling	0-10	4.1-7.2	3.1-5.4	5.1 - 6.0	---	---	---	---
	10-36	4.5-9.9	3.4-7.4	5.1 - 6.0	---	---	---	---
	36-61	1.2-5.6	0.9-4.2	5.1 - 6.0	---	---	---	---
91C2:								
Wheeling	0-10	4.1-7.2	3.1-5.4	5.1 - 6.0	---	---	---	---
	10-36	4.5-9.9	3.4-7.4	5.1 - 6.0	---	---	---	---
	36-61	1.2-5.6	0.9-4.2	5.1 - 6.0	---	---	---	---
Frequently Flooded Soils	---	---	---	---	---	---	---	---
92B:								
Wheeling	0-10	4.1-7.2	3.1-5.4	5.1 - 6.0	---	---	---	---
	10-36	4.5-9.9	3.4-7.4	5.1 - 6.0	---	---	---	---
	36-61	1.2-5.6	0.9-4.2	5.1 - 6.0	---	---	---	---
Frequently Flooded Soils	---	---	---	---	---	---	---	---
92C2:								
Wheeling	0-10	4.1-7.2	3.1-5.4	5.1 - 6.0	---	---	---	---
	10-36	4.5-9.9	3.4-7.4	5.1 - 6.0	---	---	---	---
	36-61	1.2-5.6	0.9-4.2	5.1 - 6.0	---	---	---	---
Frequently Flooded Soils	---	---	---	---	---	---	---	---
DAM:								
Dam	---	---	---	---	---	---	---	---
W:								
Water	---	---	---	---	---	---	---	---